AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

 (Withdrawn) A reef artifact for diminishing the shock of a water current or wave, comprising:

a reef-like formation having a varied surface; and

- a connector configured to mount the reef-like formation on a structure, wherein the structure is at least partially submerged in water and receives a shock from water moving toward the structure, the reef-like formation being configured to disrupt the flow of the water adjacent thereto such that the reef-like formation absorbs at least a portion of the shock of the water moving toward the structure.
- 2. (Withdrawn) A reef artifact as in claim 1, wherein the connector is a bracket.
- (Withdrawn) A reef artifact as in claim 1, wherein the reef-like formation defines at least one aperture where water can flow therethrough.
- (Withdrawn) A reef artifact as in claim 1, wherein the reef-like formation is further configured to be mounted with a desired amount of space between the reef-like formation and the structure such that water can flow therebetween.
- (Withdrawn) A reef artifact as in claim 1, wherein the reef-like formation is generally flat.
- 6. (Withdrawn) A reef artifact as in claim 1, wherein the varied surface simulates the contours of coral
- (Withdrawn) A reef artifact as in claim 1, wherein the reef-like formation has reef-organism structures thereon.
- (Withdrawn) A reef artifact as in claim 1, wherein the reef-like formation comprises a calcium carbonate based concrete.
- (Withdrawn) A reef artifact as in claim 1, wherein the reef-like formation comprises a compressed concrete and synthetic fibers.

- (Withdrawn) A reef artifact assembly comprising a plurality of reef artifacts according to claim 1, the plurality of reef artifacts being mounted to a structure, wherein the structure comprises a wall.
- 11. (Withdrawn) A reef artifact assembly as in claim 10, wherein each of the reef artifacts are mounted below a water surface.
- 12. (Withdrawn) A reef artifact designed to simulate a naturally occurring reef, comprising:

a reef-like formation having a varied surface with contours that have the appearance of coral; and

at least one reef-organism structure formed on said reef-like formation.

- (Withdrawn) A reef artifact as in claim 12, further comprising a plurality of a reef-organism structures.
- (Withdrawn) A reef artifact as in claim 12, wherein the at least one reef-organism structure has the appearance of reef organism.
- (Withdrawn) A reef artifact as in claim 12, wherein the at least one reef-organism structure is a simulated reef organism.
- (Withdrawn) A reef artifact as in claim 12, wherein the at least one reef-organism structure is a naturally-occurring reef organism.
- (Withdrawn) A reef artifact as in claim 12, wherein the at least one reef-organism structure has the appearance of a fish.
- 18. (Withdrawn) A reef artifact as in claim 12, wherein the at least one reef-organism structure has the appearance of a starfish.
- (Withdrawn) A reef artifact as in claim 12, wherein the at least one reef-organism structure has the appearance of a shell.
- 20. (Withdrawn) A reef artifact as in claim 12, wherein the at least one reef-organism structure has an appearance selected from the group consisting of a fish, a shell, a crab, an octopus, a sea horse, a plant, a starfish, and combinations thereof.
- (Withdrawn) A reef artifact as in claim 12, wherein the reef-like formation is configured to be mounted on a structure.

- (Withdrawn) A reef artifact as in claim 12, wherein the reef-like formation is configured to stand alone.
- (Withdrawn) A reef artifact as in claim 12, wherein the reef-like formation defines at least one aperture where water can flow therethrough.
- 24. (Withdrawn) A reef artifact as in claim 12, wherein the reef-like formation is further configured to be mounted with a desired amount of space between the reef-like formation and the structure such that small marine animals can fit therebetween.
- (Withdrawn) A reef artifact as in claim 12, wherein the reef-like formation is generally flat.
- (Withdrawn) A reef artifact as in claim 12, wherein the reef-like formation comprises a calcium carbonate based concrete.
- (Withdrawn) A reef artifact as in claim 12, wherein the reef-like formation comprises a concrete and a synthetic fiber.
- (Withdrawn) A reef artifact assembly comprising a plurality of reef artifacts according to claim 12, wherein the plurality of reef artifacts are mounted below a water surface.
- 29. (Withdrawn) A reef artifact assembly comprising a plurality of reef artifacts according to claim 28, wherein the reef artifacts are mounted between about 2 feet and about 10 feet below the water surface.

 (Currently Amended) A method for making a reef artifact mold comprising: providing a reef-like formation having a varied surface;

providing at least one reef-organism structure;

adhering the at least one reef-organism structure to the reef-like formation to produce a reef artifact form wherein the reef organism structure is a molded reef organism structure that simulates a naturally occurring reef organism structure; and

making a reef artifact mold using said reef artifact form, wherein providing at least one reef-organism structure comprises forming at least one reef-organism structure, and wherein forming at least one reef-organism structure comprises:

selecting at least one dehydrated reef organism, wherein the dehydrated reef organism comprises a dehydrated marine animal;

forming a mold of the at least one dehydrated reef organism; and molding at least one reef-organism structure.

- (Original) A method according to claim 30, wherein the at least one reef-organism structure simulates a naturally occurring reef organism.
- 32. (Currently Amended) A method according to claim 30, wherein the at least one reef organism-structure is a molded reef organism-structure that simulates a naturally occurring reef-organism dehydrated reef organism is selected from the group consisting of a seahorse, urchin, crab, squid, starfish, octopus, and fish.
- 33. (Currently Amended) A method according to claim 30, wherein the-at-least-one reef-organism structure is a naturally occurring reef organism dehydrated reef organism is selected from the group consisting of a seahorse, urchin, crab, squid, and starfish.
- (Original) A method according to claim 30, wherein providing the reef-like formation comprises selecting or cutting travertine stone.

- (Original) A method according to claim 30, further comprising adhering a plurality of reef-organism structures to the reef-like formation.
- 36. (Original) A method according to claim 35, wherein providing the plurality of reef-organism structures comprises:

selecting a plurality of dehydrated reef organisms;

forming a rubber negative mold of each of the plurality of dehydrated reef organisms; and

pouring a wax into each of the rubber negative molds to form the plurality of reeforganism structures.

- 37. (Original) A method according to claim 36, wherein adhering the reef-organism structures to the reef-like formation comprises melting a surface layer of wax of each of the reef-organism structures and adhering each of the reef-organism structures to the reef-like formation before the melted wax hardens.
- 38. (Original) A method of making a reef artifact according to claim 30 further comprising, (i) pouring a moldable material into the reef artifact mold and (ii) allowing the moldable material to harden to form a reef article, and removing the reef artifact from the reef artifact mold.
- 39. (Original) A method of making a reef artifact assembly according to claim 35 further comprising, repeating steps (i) and (ii) to form a plurality of reef artifacts and mounting the plurality of reef artifacts on a structure.
- 40. (Original) A method according to claim 39, wherein mounting the plurality of reef artifacts on the structure further comprises:

drilling a plurality of holes in the structure with a desired spacing for mounting the plurality of reef artifacts thereon; Application No. 10/828,565 Amendment "B" dated November 22, 2006

inserting a bolt into the hole and using a marine epoxy to permanently fix the bolt in the hole; and

mounting the reef artifacts on the bolts.

- (Original) A method according to claim 39, wherein each of the plurality of reef artifacts is mounted between about 2 and about 10 feet below a water surface.
- (Original) A method according to claim 39, wherein step (i) further comprises partially inserting a mounting bracket into the moldable material.
- 43. (Original) A method according to claim 42, wherein each of the plurality of reef artifacts is mounted with a desired amount of space between the structure and the reef artifact such that small marine animals can fit therebetween.
 - 44. (Original) A method as in claim 42, wherein the moldable material is concrete.
- (Original) A method as in claim 44, wherein the concrete comprises calcium carbonate.
- 46. (Previously Presented) A method as in claim 30, further comprising pouring a concrete mixture into the mold, forming a reef artifact by allowing the concrete mixture to cure, and removing the mold to yield a reef artifact.

47. (Currently Amended) A method for manufacturing a reef artifact suitable for use in an aquatic environment, wherein the reef artifact is configured to be mounted on a structure that is at least partially submerged in water and receives a shock from water moving toward the structure, the reef artifact being configured to disrupt the flow of the water adjacent thereto such that the reef artifact absorbs at least a portion of the shock of the water moving toward the structure, the method of manufacturing the structure comprising:

providing a reef-like formation having a varied surface;

forming at least one reef-organism structure, wherein forming at least one reeforganism structure comprises:

selecting at least one real or simulated reef organism;

forming a mold of each of the at least one real or simulated reef organism;

and

molding at least one reef-organism structure;

adhering the at least one reef-organism structure to the reef-like formation to produce a reef artifact form;

making a reef artifact mold using the reef artifact form;

pouring a moldable material into the mold;

partially inserting a mounting bracket into the moldable material, the mounting bracket configured to mount the reef artifact on a structure that is at least partially submerged in water and receives a shock from water moving toward the structure; and allowing the moldable material to harden.

- 48. (Previously Presented) A method as in claim 47, wherein forming the reef organism structures comprises forming a plurality of reef-organism structures from a plurality of negative molds.
- 49. (Previously Presented) A method as in claim 47, wherein the steps of pouring concrete and removing the mold is repeated a plurality of times to make a plurality of reef artifacts.

 (Currently Amended) A method for manufacturing a reef artifact suitable for use in an aquatic environment, comprising:

providing a reef-like formation having a varied surface;

providing a plurality of molded reef-organism structures that simulate a real reef organism wherein providing a plurality of molded reef-organism structures that simulates a real reef organism comprises:

selecting a plurality of dehydrated reef organisms, each of the dehydrated reef organisms comprising a dehydrated marine animal;

forming a rubber negative mold of each of the plurality of dehydrated reef organisms;

pouring a wax into each of the rubber negative molds to form the plurality of reeforganism structures:

adhering the at least one reef-organism structure to the reef-like formation to produce a reef artifact form;

making a reef artifact mold using the reef artifact form; and

pouring a concrete mixture into the mold and allowing the concrete mixture to harden

51. (New) A method for manufacturing and mounting a reef artifact suitable for use in an aquatic environment, wherein the reef artifact is configured to be mounted on a structure that is at least partially submerged in water and receives a shock from water moving toward the structure, the reef artifact being configured to disrupt the flow of the water adjacent thereto such that the reef artifact absorbs at least a portion of the shock of the water moving toward the structure, the method of manufacturing the reef artifact comprising:

providing a reef-like formation having a varied surface;

forming at least one reef-organism structure, wherein forming at least one reeforganism structure comprises:

selecting at least one real or simulated reef organism;

forming a mold of each of the at least one real or simulated reef organism:

and

molding at least one reef-organism structure;

adhering the at least one reef-organism structure to the reef-like formation to produce a reef artifact form;

making a reef artifact mold using the reef artifact form:

pouring a moldable material into the mold;

partially inserting a mounting bracket into the moldable material, the mounting bracket configured to mount the reef artifact on a structure;

allowing the moldable material to harden, thereby forming a reef artifact suitable for mounting in an aquatic environment; and

mounting the reef artifact on a structure that is at least partially submerged in water and receives a shock from water moving toward the structure, the reef artifact being configured to disrupt the flow of the water adjacent thereto such that the reef artifact absorbs at least a portion of the shock of the water moving toward the structure.

 (New) A method as recited in claim 51, wherein selecting at least one real or simulated reef organism comprises selecting a marine animal. 53. (New) A method as recited in claim 47, wherein the reef artifact has a substantially flat back and the mounting bracket extends from the substantially flat back.